Symantec i³ for Oracle software helps ensure that your business applications perform at peak efficiency.

The foundation product, Symantec Indepth™ for Oracle, captures, measures, and analyzes performance metrics from all critical system components. It helps you detect and correct the root cause of problems in applications that rely on an Oracle database—before end users are affected.

Also available as part of Symantec i³ software are Symantec Insight™ for Oracle, which provides an end-to-end breakdown of the end-user response time of multitier applications; and Symantec Inform™ for Oracle, which creates performance-degradation alerts and reports based on information collected by Symantec Insight and Symantec Indepth.

Figure 1. Use Symantec Indepth to check the overall health of your Oracle instances.

Benefits

• Rank and compare activities of all instances.
• Understand reaction to changes over time.

• Compare past and present activity patterns.
• Explore highly focused information.
• Proactively identify performance trends.
• Get expert tuning advice with priority ranking and relevant data displayed.

Increase productivity with continuous monitoring
Symantec Indepth monitors your Oracle environment continuously, capturing performance data for your current, short-term, and long-term performance analysis. To investigate a bottleneck, such as a locked session or a runaway process, you can use the Current Activity feature, which provides an up-to-the-second snapshot of database activity. Or, to review the performance data of a recent activity, you can use the Recent Activity feature to answer questions such as, “What caused a slowdown in the system yesterday between 10:00 p.m. and 11:00 p.m.?”

Dashboard displays for quick problem solving
Symantec Indepth for Oracle uses a dashboard-style display to show information from several workspaces containing availability, activity, and server data. It serves as a starting point for the product by enabling you to view a wide range of relevant information on a single screen instead of opening and examining different workspaces. This simplifies and shortens the time required to view the information and solve problems.

Because this workspace supports multi-instance environments such as Oracle RAC, you can compare the activities of various Oracle instances, focus on any instance that is causing problems, and, in one glance, view the objects in that instance.
Identify performance shortfall cause and effect

Once a performance problem is identified, the user can drill down seamlessly and in context to pinpoint the problem’s cause. Typical causes are a poorly designed SQL statement, program, or database object, or a bottleneck due to a resource shortage in the operating system or database. Symantec Indepth displays detailed performance information in easy-to-understand graphics so you can quickly identify your most serious problem areas.

Instance level

Using Symantec Indepth, you can see which instance-level resources are causing performance problems. For example, you can drill down to see whether the root cause is excessive CPU or I/O resources, flawed database design (which creates locking problems), or internal Oracle problems (which cause waits in resources such as latches and data buffers).

Resource consumer level

To determine which resource consumers are responsible for a performance problem, Symantec Indepth for Oracle drills down another level to identify which entities (database users, programs, client machines, and so on) were consuming resources during a specified unit of time.

SQL statement level

Symantec Indepth probes even further to identify SQL statements and stored procedures that are causing problems. This includes SQL statements that consume the largest amounts of resources, long running SQL statements, and short but frequently executed SQL statements.

SQL statement resource level

For each SQL statement or batch, Symantec Indepth for Oracle shows the resources that are causing waits. For example, you can determine whether an SQL statement is CPU- or I/O-bound, or whether it is affected by the excessive resource use of another SQL statement. The robust analysis utilities in Symantec Indepth focus on SQL statements and database objects that are causing problems.

Analyze problems

Using Symantec Indepth for Oracle, you can quickly analyze SQL statements, database objects, and Oracle instances to uncover the specific causes of performance problems.
**SQL statement analysis**

Symantec Indepth presents the Oracle access path in detailed steps, and displays the statistics needed to understand each step.

**Database object analysis**

For each database object, Symantec Indepth for Oracle shows the statements that access the object. For example, you can find all SQL statements that perform full table scans on all tables with more than a million rows, or you can identify the indexes that are scanned in full index scans. You can even identify unused indexes. Having the ability to analyze SQL statements and database objects allows you to determine whether your performance problems are caused by poorly written SQL statements or by inefficient object design.

**Instance statistics for analysis**

Symantec Indepth continuously collects instance and database statistics from the Windows Performance Monitor command, and saves them in the Performance Warehouse. This enables you to correlate application performance metrics with instance and database performance metrics, then analyze them to help solve problems.

**Improve performance**

Inefficient SQL statements and poorly designed database structures are the leading causes of performance problems in Oracle environments. Symantec Indepth features built-in utilities—including SmarTune™ Expert Advice—to help tune these components and improve performance.

SmarTune analyzes the information that is collected over time and provides recommendations based on changes in the application’s performance and instance health checks.

Changes are compared to the baseline, and in case of deceleration, the problems and suggested solutions are displayed. Based on this information, SmarTune generates alerts and enables you to proactively identify performance trends.

The SmarTune workspace provides links that enable you to drill down in context to the relevant workspace to perform additional tuning.

**Step-by-step performance management**

The easy-to-use, comprehensive performance management method of Symantec Indepth for Oracle guides you through performance management from start to finish—from proactive monitoring and problem detection to problem identification, analysis, resolution, and verification.
Data Sheet: Application Performance Management
Symantec i3 for Oracle

Version comparison
Symantec’s Oracle performance solutions are available in two configurations:

• Symantec Indepth for Oracle Standard Edition
• Symantec i3 for Oracle, an offering consisting of Symantec Indepth, Symantec Insight, and Symantec Inform.

To determine which Symantec Oracle performance solution is right for your organization, refer to the table below.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Indepth for Oracle</th>
<th>i3 for Oracle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uses the Symantec i3 architecture</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>UI</td>
<td>Web-based</td>
<td>Web-based</td>
</tr>
<tr>
<td>24x7 unattended alerting</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Historical reporting</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Infrastructure availability information (VCS integration)</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>ERP support</td>
<td>No</td>
<td>Yes*</td>
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<tr>
<td>Supports storage arrays</td>
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<tr>
<td>Statistics detail</td>
<td>Minute</td>
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<tr>
<td>Performance Warehouse transaction volume and size support</td>
<td>Small to Medium</td>
<td>Unlimited</td>
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<td>Ease of installation</td>
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<td>Normal</td>
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<tr>
<td>Indexing recommendations</td>
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<td>SmarTune</td>
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<td>SmarTune Expert Advice</td>
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<td>Yes</td>
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<tr>
<td>Workspace</td>
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<td></td>
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<tr>
<td>Oracle Partitioning Option required</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* Additional product required

System requirements
Consult [http://support.veritas.com](http://support.veritas.com) for detailed application server and operating system version support information.

Database
• Oracle 8i (32|64bit), 9i (32|64bit) and 10g
  
  Requires Oracle 8.1.7.4+, EE, with Partitioning to use the Performance Warehouse Server

Server operating systems
• Microsoft Windows W2K, XP, or 2003
• Sun Solaris 2.7, 2.8, or 2.9 (32-bit or 64-bit); or Solaris 10
• HP-UX 11 or 11i (32-bit or 64-bit), or HP-UX 11i v2
• HP Tru64 UNIX 4.0, 5.0, or 5.1
• IBM AIX 4.3, 5.1L, 5.2L, or 5.3 (32-bit or 64-bit)
• Red Hat 6.2, 7.0, 7.1, 7.2, 8.1 or 9; AS2.1, 3 or 4; or Itanium 64 Linux

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